

Abstract

Methods are disclosed for treatment of patients suffering from accumulation of a metabolite within
5 macrophages, such as in lysosomal storage diseases. The methods comprise treating the patient
with a macrophage depleting amount of a bisphosphonate compound, such that apoptosis of
macrophages is induced and the metabolite is released into circulation so that the metabolites may
be eliminated from the patient. The methods may further include administration of a gene therapy
vector for the treatment of lysosomal storage diseases.